



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन National Agromet Advisory Services Bulletin

जारी करने की तिथि / Date of issue: 20 October 2023

आधारित / based on

विस्तारित अवधि मौसम पूर्वानुमान / Extended Range Weather Forecast (ERFS)

वैधता / Validity: 20 October - 02 November 2023

जारीकर्ता / Issued by

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

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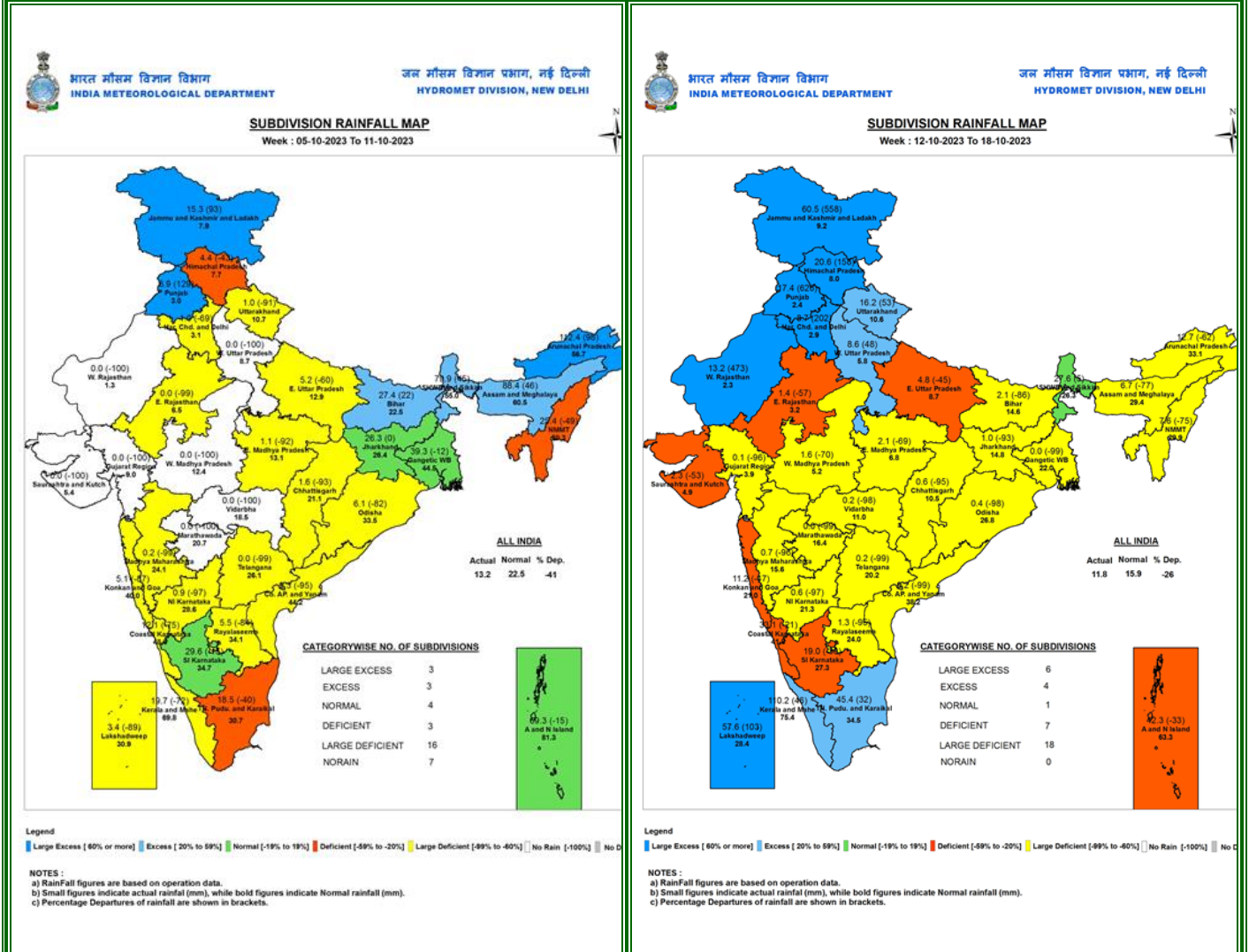
पृथ्वी प्रणाली विज्ञान संगठन

Earth System Science Organization

Realized Rainfall and Extended Range Forecast

Realized Rainfall

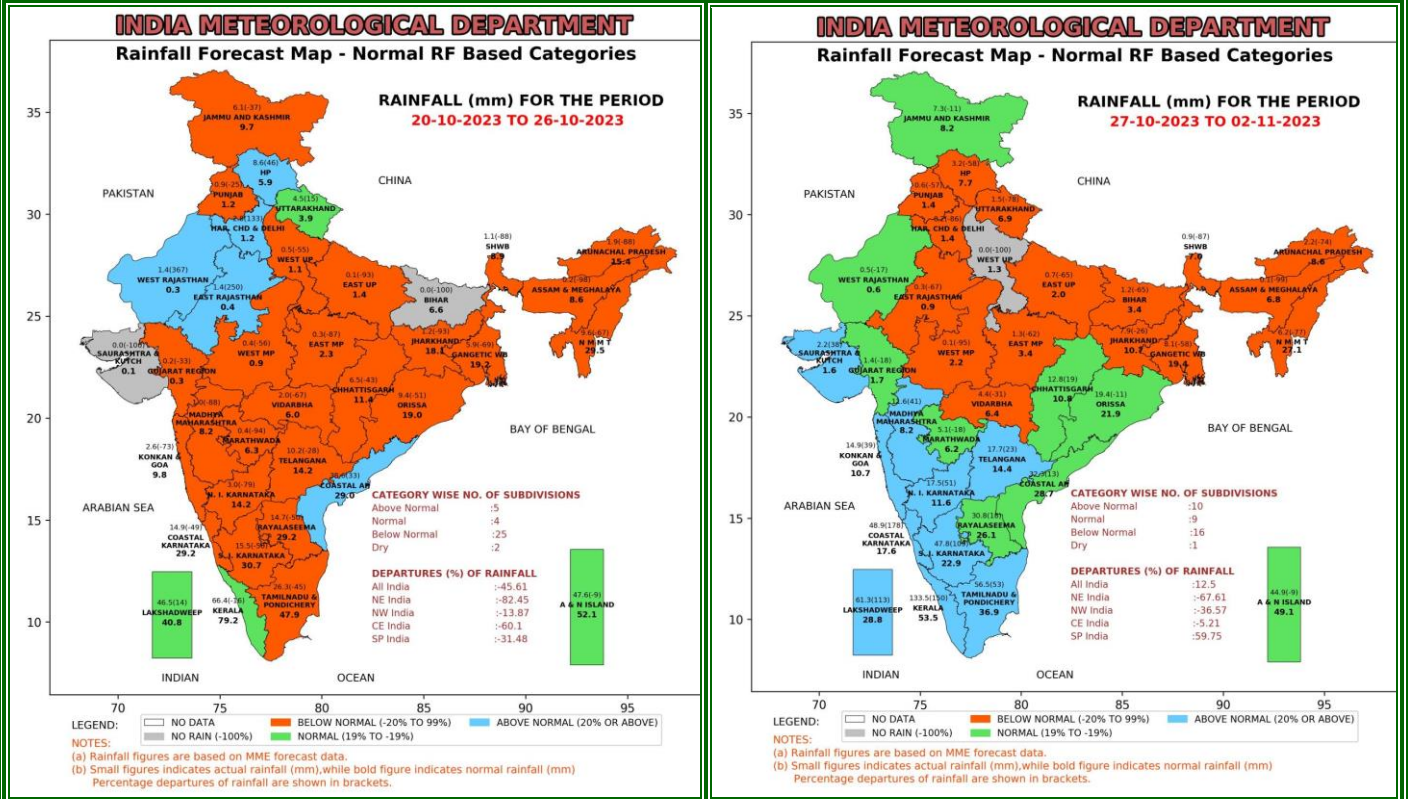
(05th to 18th October, 2023)



- Normal or above normal rainfall occurred in both the weeks over Jammu & Kashmir and Ladakh (UTs), Punjab and Sub-Himalayan West Bengal & Sikkim.
- Normal or above normal rainfall occurred in either of the two weeks over Himachal Pradesh, Uttarakhand, West Rajasthan, Haryana Chandigarh & Delhi, West Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Arunachal Pradesh, South Interior Karnataka, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Andaman & Nicobar Islands.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the country.

Extended Range Forecast System

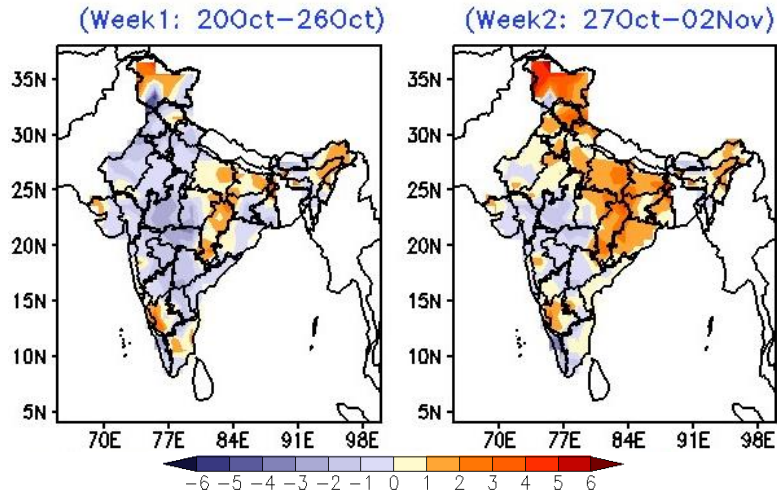
Rainfall forecast maps for the next 2 weeks (IC- 18th October) (20th October to 02nd November, 2023)



- **Week 1 (20.10.2023 to 26.10.2023):** Rainfall is likely to be below normal over most parts of South India.
- **Week 2 (27.10.2023 to 02.11.2023):** Rainfall is likely to be above normal over West Coast of South India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for the next 2 weeks (IC- 18th October)
(20th October to 02nd November, 2023)**

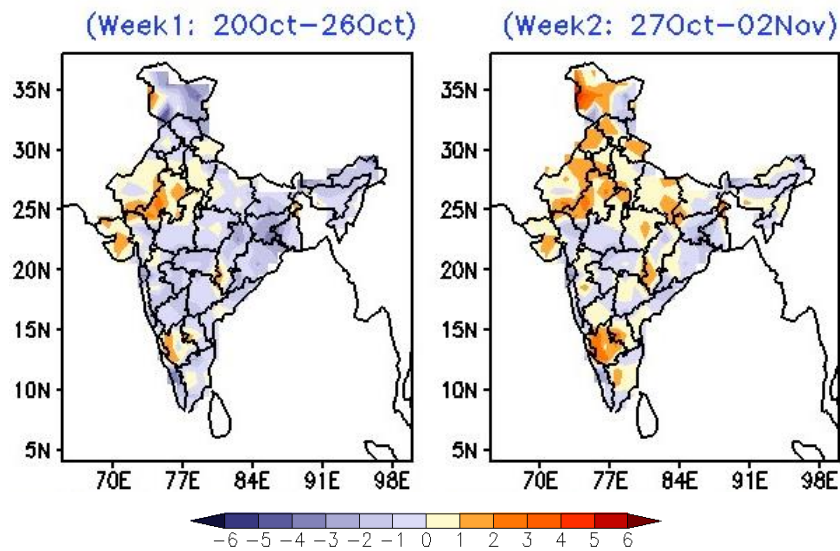
MME forecast Tmax anomaly (Deg C)



Maximum Temperature (Tmax)

- **Week 1 (20.10.2023 to 26.10.2023):** Tmax is likely to be slightly above normal over some parts of East, North East and Central India.
- **Week 2 (27.10.2023 to 02.11.2023):** Tmax is likely to be above normal over most parts of East India and some parts of North West India, Central and North East India.

MME forecast Tmin anomaly (Deg C)



Minimum Temperature (Tmin)

- **Week 1 (20.10.2023 to 26.10.2023):** Tmin is likely to be close to normal over most parts of the country.
- **Week 2 (27.10.2023 to 02.11.2023):** Tmin is likely to be above normal over most parts of North West India and parts of Peninsular India.

Strategic Agricultural Planning based on rainfall till 26 October 2023

Agromet Advisories

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 38 mm (22% excess) and over West Uttar Pradesh was 9 mm (-52% deficit) during 01 - 19 October 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) is below normal over West Uttar Pradesh and East Uttar Pradesh for week-1 and no rainfall over West Uttar Pradesh and below normal over East Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to below normal rainfall forecast during next week, farmers are advised to provide light irrigation in rice crop which is at the milki stage, and also harvest early maturing crop thresh it and keep it in a safe and dry place.
- Since there is a forecast of dry weather during coming week, farmers are advised to harvest mature maize crop and dry the cobs in sunlight.
- Sowing of gram is also advised with recommended varieties like *Avarodhi*, *KWR-108*, *Radhey*, *JG-16*, *KGD-1168* and *K-850*.
- Under prevailing weather condition, there may be a chance of tikka disease incidence in groundnut crop at pod filling stage. To manage, it is advised to spray 2% Mancozeb or Zineb 75% 2.5 kg or Ziram 27% @3 litres with 500 to 600 litres of water solution.

Eastern Uttar Pradesh

- Since there is below normal rainfall forecast during next week, farmers are advised to irrigate the rice crop which is at flowering and milking stage. Harvest early maturing rice crop.
- Sowing of mustard crop is advised with recommended varieties viz., *RH-725*, *NDR 8502*, *Varuna*, *Kanti*, *Peetambri* etc.
- Under prevailing weather condition, there is a chance of leaf roller infestation in pigeon pea crop which is at vegetative/branching stage. To control, it is advised to spray Quinalphos 25 EC 2.0 litre/ha with 500 to 600 litres of water.

Uttarakhand

19 mm (-31% deficit) rainfall received over Uttarakhand during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) over Uttarakhand is normal for week-1 and below normal for week-2.

- In view of the occurrence of recent hailstorms, farmers are advised to spray bio fungicides like Copper oxychloride @ 2-3 g/litre at evening time for fungal disease management in vegetable crops.
- First earthing is advised in potato plants (15-25 cm high).

- Remove mulch after germination of onion seeds in nursery. Provide light irrigation to maintain optimum soil moisture (avoid over watering).
- Farmers are advised to start the sowing of wheat, barley, lentil etc.

Himachal Pradesh

28 mm (37% excess) rainfall was received over Himachal Pradesh during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) over Himachal Pradesh is above normal for week-1 and; below normal for week-2.

- Dairy farmers of the state are advised to sow berseem. The varieties recommended for cultivation in the state are *Mescavi*, *BL-1* and *BL-22*.
- It is also the optimum time for the sowing of oats for fodder purpose. The varieties recommended are *Palampur-1* and *Kent*.
- Farmers are also advised for sowing of gobi sarson. The varieties recommended are *HPN-3*, *ONK-1* and *GSC-7*.
- In mid hills of the state farmers are advised for sowing of improved varieties of garlic (*GHC 1* and *Agrifound Parvati*).

Jammu

79 mm (249% large excess) rainfall was received over Jammu during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) over Jammu is below normal for week-1 and; normal for week-2.

- As heavy rainfall occurred during last week, farmers are advised to drain out rainwater immediately from rice fields to prevent rotting of grains after lodging of crop in the field due to rainfall.
- Under prevailing weather condition, farmers may go for sowing of mustard (var: *Pusa Bold*, *RSPR-01*, *RSPR-03*, *Kranti*) during clear weather at vattar condition of soil. Treat the seed with Captan or Thiram @ 3 g/kg seed before sowing for management of Alternaria blight, white rust and downy mildew disease.

Assam

139 mm (16% excess) rainfall was received over Assam during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) over Assam is below normal for week-1 and week 2.

- As below normal rainfall is forecasted, farmers may start seedbed preparation for raising tomato seedlings. Drench the beds with 1% solution of Captan or Formalin. Recommended varieties are *Punjab Chhuhara*, *S-12*, *Punjab Kesri*, *Sioux*, *Pusa Ruby*, *Arka Abha*, *Arka Alok*, *BT-1* etc.

- Under prevailing weather condition, land preparation for potato cultivation is advised. For early planting of potato, collect the recommended varieties of potato like *Kufri Chandramukhi*, *Kufri Jyoti*, *Kufri Megha*, *Kufri Pukhraj* etc. from reliable sources.
- Under prevailing weather conditions, aphids may be seen in black gram fields. Farmers are advised to monitor the crop fields regularly. If infestation is observed, immediately spray Thiamethoxam 25 WG @ 13.5 g/bigha or Fipronil 5 SC @ 50 ml/bigha of land, to considerably reduce pest population.

Jharkhand

136 mm (130% large excess) rainfall was received over Jharkhand during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) over Jharkhand is below normal for week-1 and week 2.

- Under prevailing weather condition, it is advised to prepare the seedlings of improve varieties of cauliflower like *Pusa Katki*, *Pusa Deepali*, *Pant Shubhra*, to plant them in the main fields at a distance of 45X30 cm.
- Farmers are advised to sow the seeds of tomato in the nursery bed, farmers who have already raised the seedlings, may transplant them at a distance of 60 cm (row to row) and 40 cm (plant to plant) for HYV and for hybrid varieties maintain the distance 60 x 60 cm.

Bihar

95 mm (86% large excess) rainfall was received over Bihar during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) over Bihar is no rainfall week-1 and below normal for week 2.

- Monitoring of khaira disease is advised in late transplanted paddy. If symptoms occur, spraying of zinc sulphate @ 5.0 kg mixed with lime @ 2.5 kg in 500 litres of water is advised for one hectare cropped area.
- Early sowing of radish is advised. *Pusa chetki*, *Pusa desi*, *Jounpuri*, *Pusa himani*, *Japani safed*, *Pusa rashmi*, *Punjab safed* and *Arka nishant* varieties of radish are advised for sowing in North Bihar region.
- Nursery sowing of early varieties of cabbage is advised. *Pride of India*, *Golden Acre*, *Pusa mukta*, *Pusa agate* and *early drum head* varieties of cabbage are recommended for sowing under North Bihar agro climatic condition.

West Bengal

167 mm (73% large excess) rainfall received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 185 mm (54% excess) during 01 - 19 October 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) is below normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week-1 and; week-2.

- Farmers are advised to process the harvested rice as early as possible and store in clean and airy condition inside gunny bags.

- Monitoring of sucking pest in brinjal crop is advised to install yellow sticky traps @10 traps per acre for sucking pests

Chhattisgarh

29 mm (-37% deficit) rainfall was received over Chhattisgarh during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) over Chhattisgarh is below normal for week-1 and; normal for week-2.

- Under prevailing weather condition, farmers are advised to harvest the matured crops like black gram, green gram and soybean.
- Due to the forecast of below normal rainfall, during next week, and increase in temperature, light irrigation as per need basis for *rabi* crops need to be provided.

Odisha

74 mm (-13% deficit) rainfall received over Odisha during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) over Odisha is below normal for week-1 and; normal for week-2.

- Farmers are advised to maintain about 5-10 cm standing water during panicle initiation stage in paddy and keep the field clean from weeds
- Prevailing weather condition is optimum for land preparation and nursery sowing of cauliflower, cabbage, knolkhol, carrot and radish.
- To manage *Epilachna* beetle in cucurbits, it is advised to spray neem-based pesticide (Neem Oil 1500 ppm) @ 3 ml/litre of water at early stage of infestation.

Gujarat

0.9 mm (-95% large deficit) rainfall received over Gujarat during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) over Gujarat is below normal for week 1 and normal rainfall for week-2.

- Farmers are advised to drain the water from the paddy field 10-15 days prior to the harvesting of paddy. After harvesting, dry the crop in the field itself and thresh the crop. As long as the grain has a moisture content of 10-15%, it is usually dried in the heat of the sun to maintain the quality of the grain.
- To control thrips in chili, it is advised to spray Neem seed oil 30 to 50 ml in 10 liters of water. In case of heavy attack, spray. If it is severe then spray cyantraniliprole 10.26 % OD @ml or Acetamiprid 20 % SP @0.2g per litre water.

Maharashtra

21 mm (-66% large deficit) rainfall over Madhya Maharashtra; 5 mm (-89% large deficit) rainfall over Vidarbha; 8 mm (-87% large deficit) rainfall over Marathwada; and 87 mm (-9% deficit) in Konkan region was recorded during 01 - 19 October 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) is

below normal over Vidarbha, Konkan, Marathwada and Madhya Maharashtra for week-1 and; above normal over Konkan, Vidarbha and Madhya Maharashtra and normal over Marathwada for week-2, respectively.

Vidarbha

- Complete the harvesting of matured soybean crop, particularly early duration varieties and ensure safe storage of harvested produce.
- Monitor for presence of pink boll worm larvae within flowers/ buds of cotton. Collect and destroy rosette flowers/ buds. If infestation is more than 10% (ETL) spray Profenofos 50% EC or Chlorpyrifos 50% EC @ 1 to 1.5ml or Cypermethrin 10 % EC 1ml per 10 litres of water is advisable

Parbhani

- For the management of sucking pest in cotton crop, it is advised to spray Flonicamid 50% WG @ 70 g or Dinotefuran 20% SG @ 70 g or Diafenthiuron 50% WP @ 300 g per 300 litre water per acre.
- After harvesting of kharif crops sowing of rabi sorghum is advised early as possible, as per availability of water or at available soil moisture, with a spacing of 45x15 cm spacing.
- For management of Phytophthora blight in pigeon pea drenching of Trichoderma or Biomix @ 200 g/ 200 ml per 10 litres of water should be done at infected area.

Kerala

219 mm (12% excess) received over Kerala during 01 - 19 October 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) is normal week-1 and; above normal for week-2.

- To control sigatoka leafspot disease in banana cut and remove all severely affected leaves and spray Propiconazole 1ml/litres of water.
- There is a chance of thrips attack in chilli crop. If the infestation is less, it is advised to spray 2% neem oil+ garlic emulsion under the leaf surface at 10 days intervals. If it is severe then spray Cyantraniliprole 10.26 % OD @ml or Acetamiprid 20 % SP @0.2g per litre water.

Anantapur

9 mm (-89% large deficit) rainfall was received over Rayalaseema and 14 mm (-88% large deficit) rainfall was received over Coastal Andhra Pradesh during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) is below normal over Rayalaseema and above normal over Coastal Andhra Pradesh for week-1 and; normal over Rayalaseema and Coastal Andhra Pradesh for week-2.

- Farmers are advised to for top dressing of nitrogen at maximum tillering and panicle initiation stage and potassium at booting stage.

- Present weather conditions are favourable for the incidence of pink boll worm in cotton grown in Srikakulam, Vizianagaram and Krishna districts. To control, farmers are advised to spray Prophenophos @ 2 ml or Thiodicarb 1.5 g/litre of water.

Karnataka

58 mm (-37% deficit) rainfall received over South Interior Karnataka, 105 mm (-23% deficit) over Coastal Karnataka and 10 mm (-88% large deficit) rainfall received over North Interior Karnataka during 01 - 19 October 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 October 2023 and 27 October - 02 November 2023) is below normal over North Interior Karnataka, Coastal Karnataka and South Interior Karnataka for week-1 and; above normal over North Interior Karnataka, South Interior Karnataka and Coastal Karnataka for week-2.

South Interior Karnataka

- Early sown ragi crop is at ear head formation and grain filling stage, farmers are recommended for ear head tying to protect from lodging of crop.
- Deep ploughing is recommended in mango orchard, for conserving the soil moisture and removal of weeds in the field.
- Wherever over population of crop plants is existing, thinning operation is advised for better availability of scarce soil moisture to the reduce population of crop plants.

North Interior Karnataka

- As there is a forecast of below normal rainfall during next week, if irrigation facility is available sowing of chickpea and wheat crops may be taken up on preference.
- As no rainfall is forecasted during next week, it is advised to provide protective irrigation to the crops.
- Under prevailing weather condition, repeated intercultivation is advised to conserve soil moisture and control weed infestation in already sown crops.

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